YAMAHA

YFZ450W
YFZ450SEW

SUPPLEMENTARY SERVICE MANUAL

LIT-11616-20-13 5TG-28197-12

FOREWORD

This Supplementary Service Manual has been prepared to introduce new service and data for the YFZ450W/YFZ450SEW. For complete service information procedures it is necessary to use this Supplementary Service Manual together with the following manual.

YFZ450S SERVICE MANUAL: LIT-11616-17-11 (5TG-28197-10)
YFZ450V SUPPLEMENTARY SERVICE MANUAL: LIT-11616-19-32 (5TG-28197-11)

YFZ450W/YFZ450SEW
SUPPLEMENTARY
SERVICE MANUAL
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LIT-11616-20-13

EBS00002

NOTICE

This manual was produced by the Yamaha Motor Company primarily for use by Yamaha dealers and their qualified mechanics. It is not possible to include all the knowledge of a mechanic in one manual, so it is assumed that anyone who uses this book to perform maintenance and repairs on Yamaha vehicle has a basic understanding of the mechanical ideas and the procedures of vehicle repair. Repairs attempted by anyone without this knowledge are likely to render the vehicle unsafe and unfit for use.

Yamaha Motor Company, Ltd. is continually striving to improve all its models. Modifications and significant changes in specifications or procedures will be forwarded to all authorized Yamaha dealers and will appear in future editions of this manual where applicable.

NOTE:
Designs and specifications are subject to change without notice.

EBS00003

IMPORTANT INFORMATION

Particularly important information is distinguished in this manual by the following notations.

⚠ The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

⚠ WARNING Failure to follow WARNING instructions could result in severe injury or death to the vehicle operator, a bystander or a person checking or repairing the vehicle.

CAUTION: A CAUTION indicates special precautions that must be taken to avoid damage to the vehicle.

NOTE: A NOTE provides key information to make procedures easier or clearer.

EBS00004

HOW TO USE THIS MANUAL

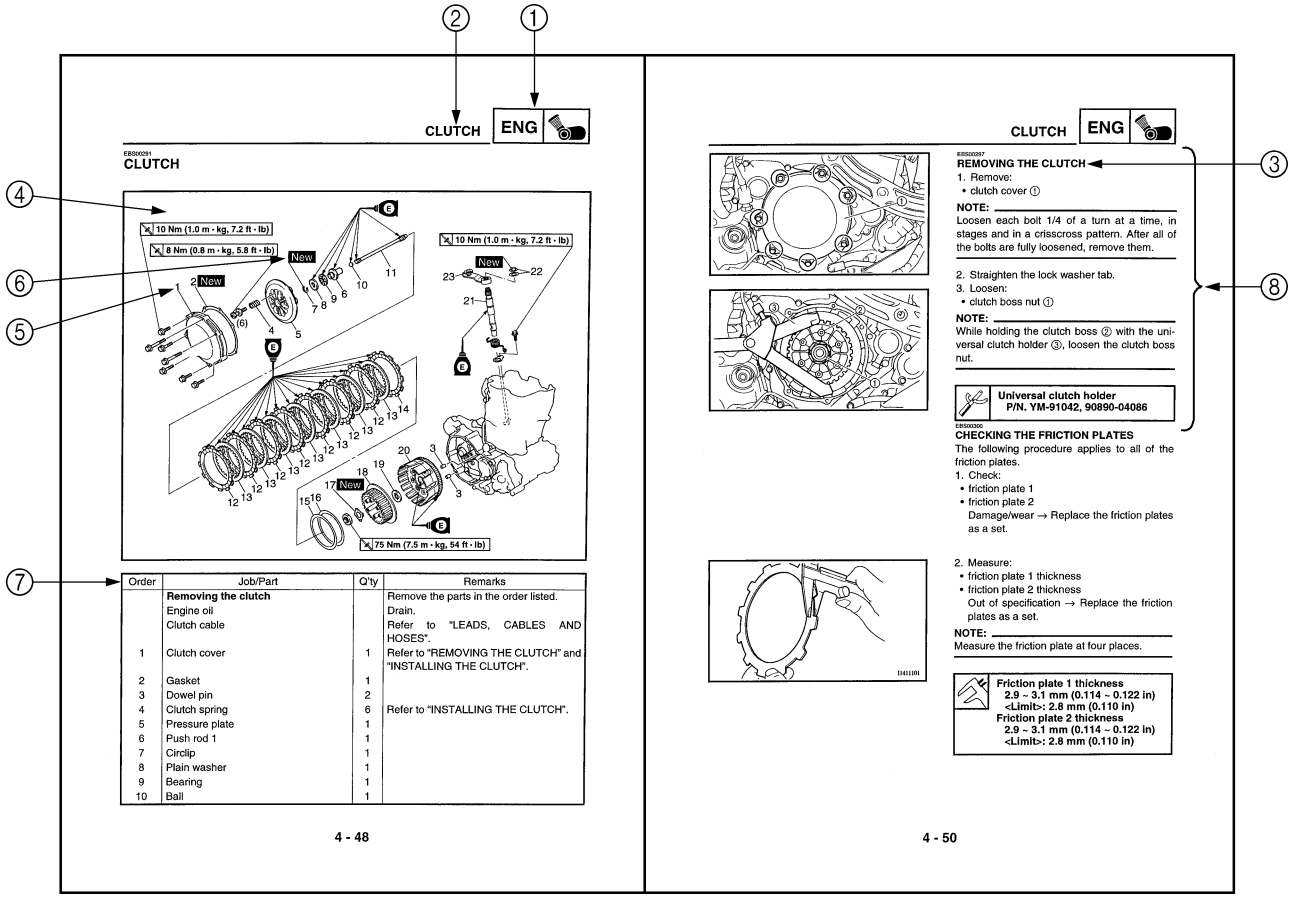
MANUAL ORGANIZATION

This manual consists of chapters for the main categories of subjects. (See “symbols”)
1st title ①: This is the title of the chapter with its symbol in the upper right corner of each page.
2nd title ②: This title indicates the section of the chapter and only appears on the first page of each section. It is located in the upper left corner of the page.
3rd title ③: This title indicates a sub-section that is followed by step-by-step procedures accompanied by corresponding illustrations.

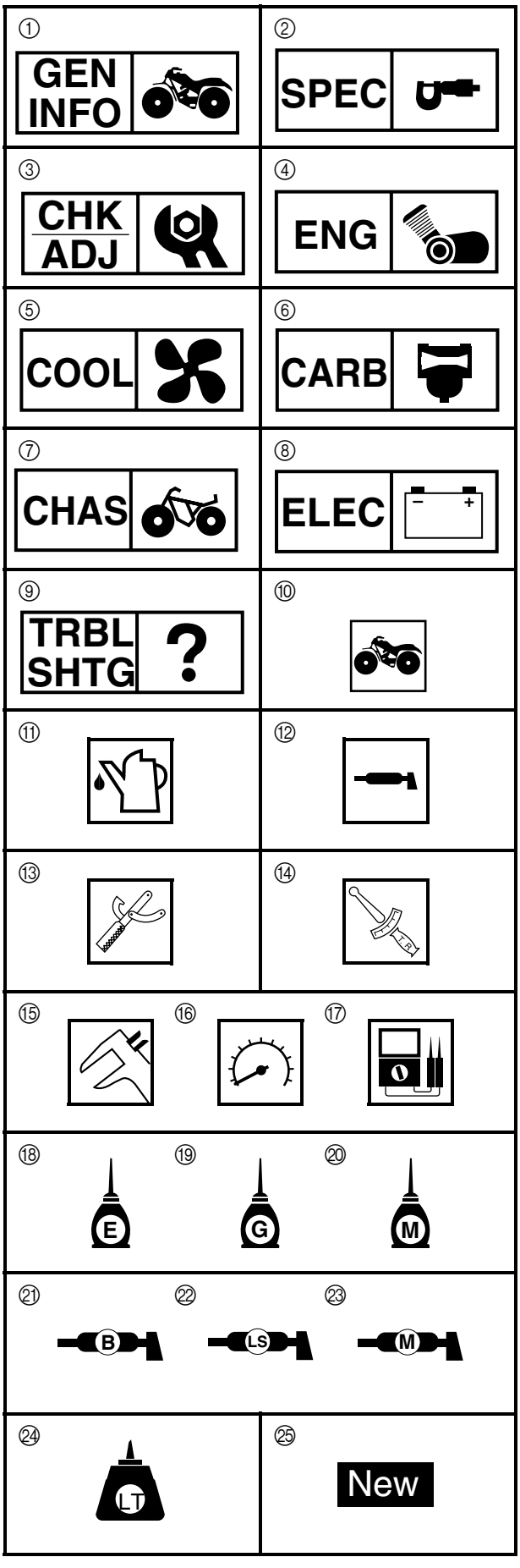
EXPLODED DIAGRAMS

To help identify parts and clarify procedure steps, there are exploded diagrams at the start of each removal and disassembly section.

1. An easy-to-see exploded diagram ④ is provided for removal and disassembly jobs.
2. Numbers ⑤ are given in the order of the jobs in the exploded diagram. A number that is enclosed by a circle indicates a disassembly step.
3. An explanation of jobs and notes is presented in an easy-to-read way by the use of symbol marks ⑥. The meanings of the symbol marks are given on the next page.
4. A job instruction chart ⑦ accompanies the exploded diagram, providing the order of jobs, names of parts, notes in jobs, etc.
5. For jobs requiring more information, the step-by-step format supplements ⑧ are given in addition to the exploded diagram and the job instruction chart.


②
①
CLUTCH
ENG
④
⑥
⑤
⑦
③
⑧
CLUTCH
ENG
10 Nm (1.0 m · kg, 7.2 ft · lb)
8 Nm (0.8 m · kg, 5.8 ft · lb)
New
75 Nm (7.5 m · kg, 54 ft · lb)
REMOVING THE CLUTCH
1. Remove:
• clutch cover ①
NOTE:
Loosen each bolt 1/4 of a turn at a time, in stages and in a crisscross pattern. After all of the bolts are fully loosened, remove them.
2. Straighten the lock washer tab.
3. Loosen:
• clutch boss nut ①
NOTE:
While holding the clutch boss ② with the universal clutch holder ③, loosen the clutch boss nut.
Universal clutch holder
P/N. YM-91042, 90890-04086
CHECKING THE FRICTION PLATES
The following procedure applies to all of the friction plates.
1. Check:
• friction plate 1
• friction plate 2
Damage/wear → Replace the friction plates as a set.
2. Measure:
• friction plate 1 thickness
• friction plate 2 thickness
Out of specification → Replace the friction plates as a set.
NOTE:
Measure the friction plate at four places.
Friction plate 1 thickness
2.9 ~ 3.1 mm (0.114 ~ 0.122 in)
<Limit>: 2.8 mm (0.110 in)
Friction plate 2 thickness
2.9 ~ 3.1 mm (0.114 ~ 0.122 in)
<Limit>: 2.8 mm (0.110 in)

Order	Job/Part	Q'ty	Remarks
	Removing the clutch		Remove the parts in the order listed.
	Engine oil		Drain.
	Clutch cable		Refer to “LEADS, CABLES AND HOSES”.
1	Clutch cover	1	Refer to “REMOVING THE CLUTCH” and “INSTALLING THE CLUTCH”.
2	Gasket	1	
3	Dowel pin	2	
4	Clutch spring	6	Refer to “INSTALLING THE CLUTCH”.
5	Pressure plate	1	
6	Push rod 1	1	
7	Circlip	1	
8	Plain washer	1	
9	Bearing	1	
10	Ball	1	



EBS00006

SYMBOLS

The following symbols are not relevant to every vehicle.

Symbols ① to ⑨ indicate the subject of each chapter.

① General information
② Specifications
③ Periodic checks and adjustments
④ Engine
⑤ Cooling system
⑥ Carburetor
⑦ Chassis
⑧ Electrical
⑨ Troubleshooting

Symbols ⑩ to ⑰ indicate the following

⑩ Serviceable with engine mounted
⑪ Filling fluid
⑫ Lubricant
⑬ Special tool
⑭ Tightening torque
⑮ Wear limit, clearance
⑯ Engine speed
⑰ Electrical data (Ω, V, A)

Symbols ⑱ to ㉓ in the exploded diagrams indicate the types of lubricants and lubrication points.

⑱ Apply engine oil
⑲ Apply gear oil
⑳ Apply molybdenum disulfide oil
㉑ Apply wheel bearing grease
㉒ Apply lithium-soap-based grease
㉓ Apply molybdenum disulfide grease

Symbols ㉔ to ㉕ in the exploded diagrams indicate where to apply a locking agent ㉔ and when to install a new part ㉕.

㉔ Apply the locking agent (LOCTITE®)
㉕ Replace

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YFZ450W/YFZ450SEW 2007 WIRING DIAGRAM

EBS01001

SPECIFICATIONS

GENERAL SPECIFICATIONS

Item	Standard
Model code	5D31, 5D34

EBS01002

ENGINE SPECIFICATIONS

Item	Standard	Limit
Clutch		
Friction plate 1 (inside dia.: 119 mm)		
Thickness	2.92 ~ 3.08 mm (0.115 ~ 0.121 in)	2.8 mm (0.110 in)
Quantity	7	----
Friction plate 2 (inside dia.: 128 mm)		
Thickness	2.92 ~ 3.08 mm (0.115 ~ 0.121 in)	2.8 mm (0.110 in)
Quantity	1	----
Clutch plate		
Thickness	1.5 ~ 1.7 mm (0.059 ~ 0.067 in)	----
Quantity	7	----
Max. warpage	----	0.2 mm (0.0079 in)
Clutch spring		
Free length	47.8 mm (1.88 in)	46.0 mm (1.81 in)
Quantity	6	----
Clutch housing thrust clearance	0.10 ~ 0.35 mm (0.0039 ~ 0.0138 in)	----
Clutch housing radial clearance	0.010 ~ 0.044 mm (0.0004 ~ 0.0017 in)	----
Clutch release method	Inner push, cam push	----
Push rod 2 bending limit	0.1 mm (0.004 in)	----

EBS01003
CHASSIS SPECIFICATIONS

Item	Standard	Limit
Rear disc brake		
Type	Single	----
Disc outside diameter × thickness	200.0 × 4.0 mm (7.87 × 0.16 in)	----
Pad thickness inner	5.4 mm (0.21 in)	1.0 mm (0.04 in)
Pad thickness outer	5.4 mm (0.21 in)	1.0 mm (0.04 in)
Master cylinder inside diameter	12.7 mm (0.50 in)	----
Caliper cylinder inside diameter	25.4 mm (1.00 in)	----
Brake fluid type	DOT 4	----

EBS01005
TIGHTENING TORQUES
ENGINE TIGHTENING TORQUES

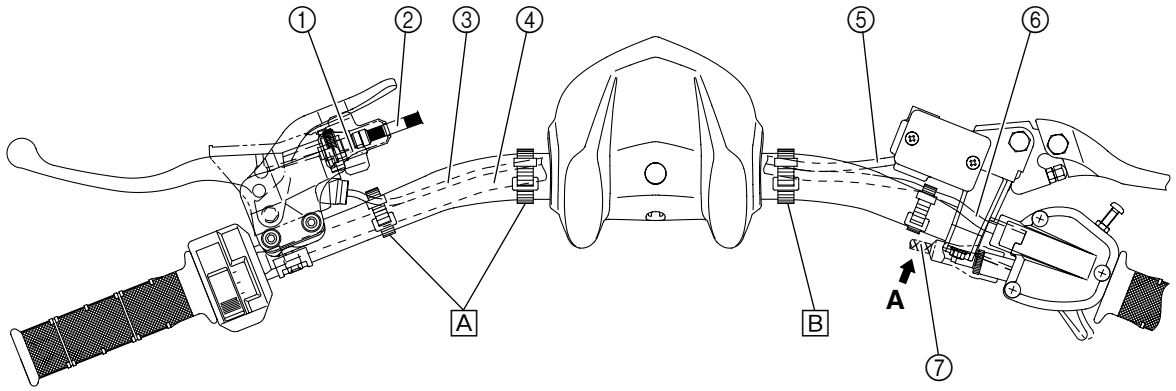
Part to be tightened	Part name	Thread size	Q'ty	Tightening torque			Remarks
				Nm	m · kg	ft · lb	
Oil gallery bolt	Bolt	M6	1	7	0.7	5.1	

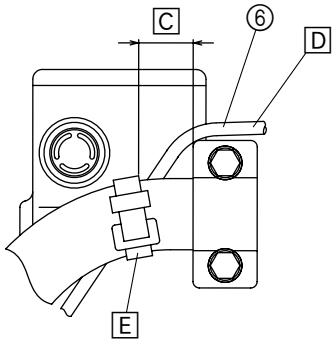
EBS00028

CABLE ROUTING

① Parking brake cable
② Clutch cable
③ Clutch switch lead
④ Handlebar switch lead
⑤ Front brake light switch lead
⑥ Throttle switch lead
⑦ Throttle cable

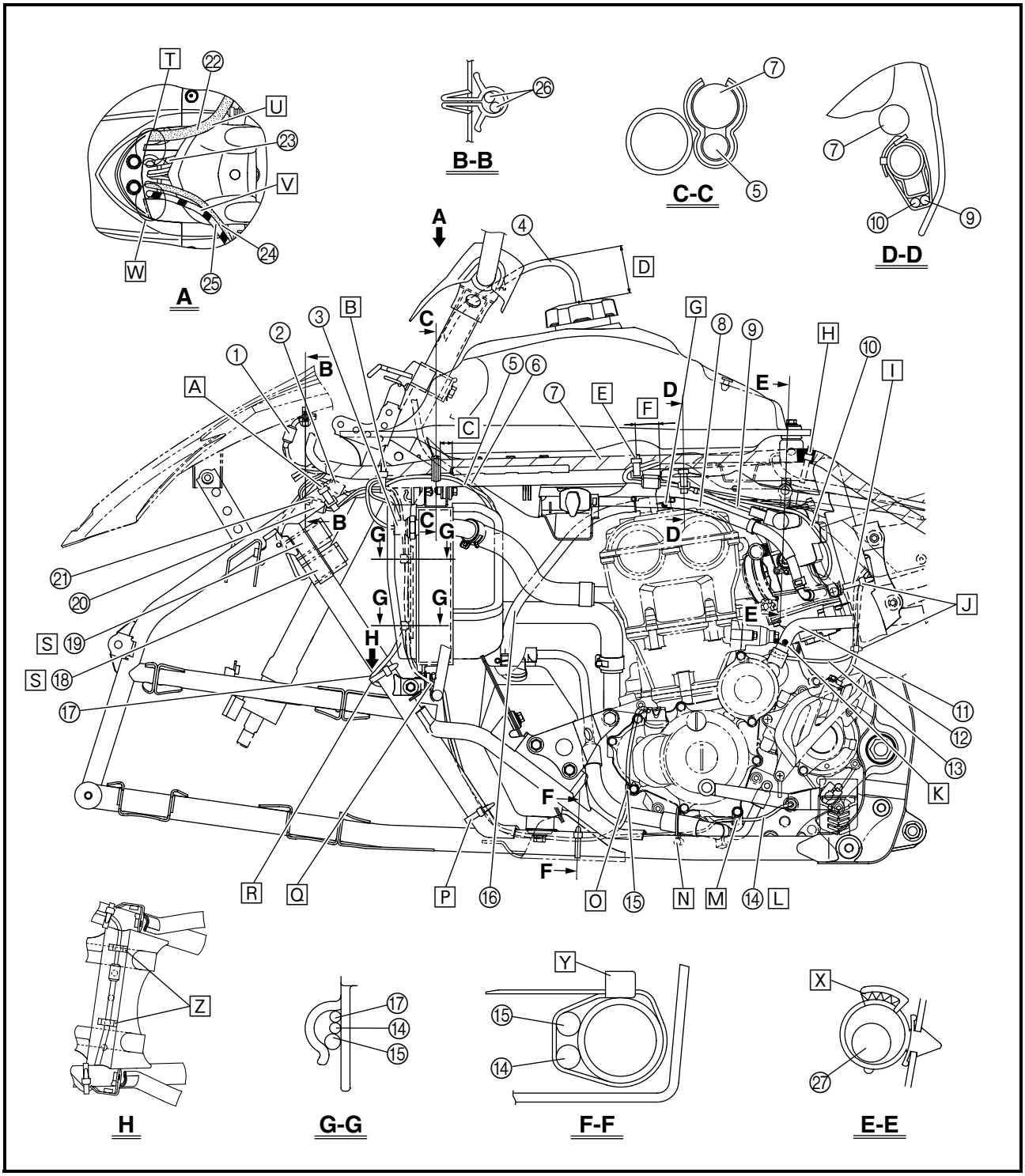
[A] Fasten the clutch switch lead and handlebar switch lead with the plastic bands at the bends in the handlebar.
[B] Fasten the front brake light switch lead and throttle switch lead with the plastic band at the bend in the handlebar.
[C] Less than 20 mm (0.79 in)
[D] Make sure that there is no slack in the throttle switch lead.
[E] Fasten the throttle switch lead to the handlebar with the plastic band.



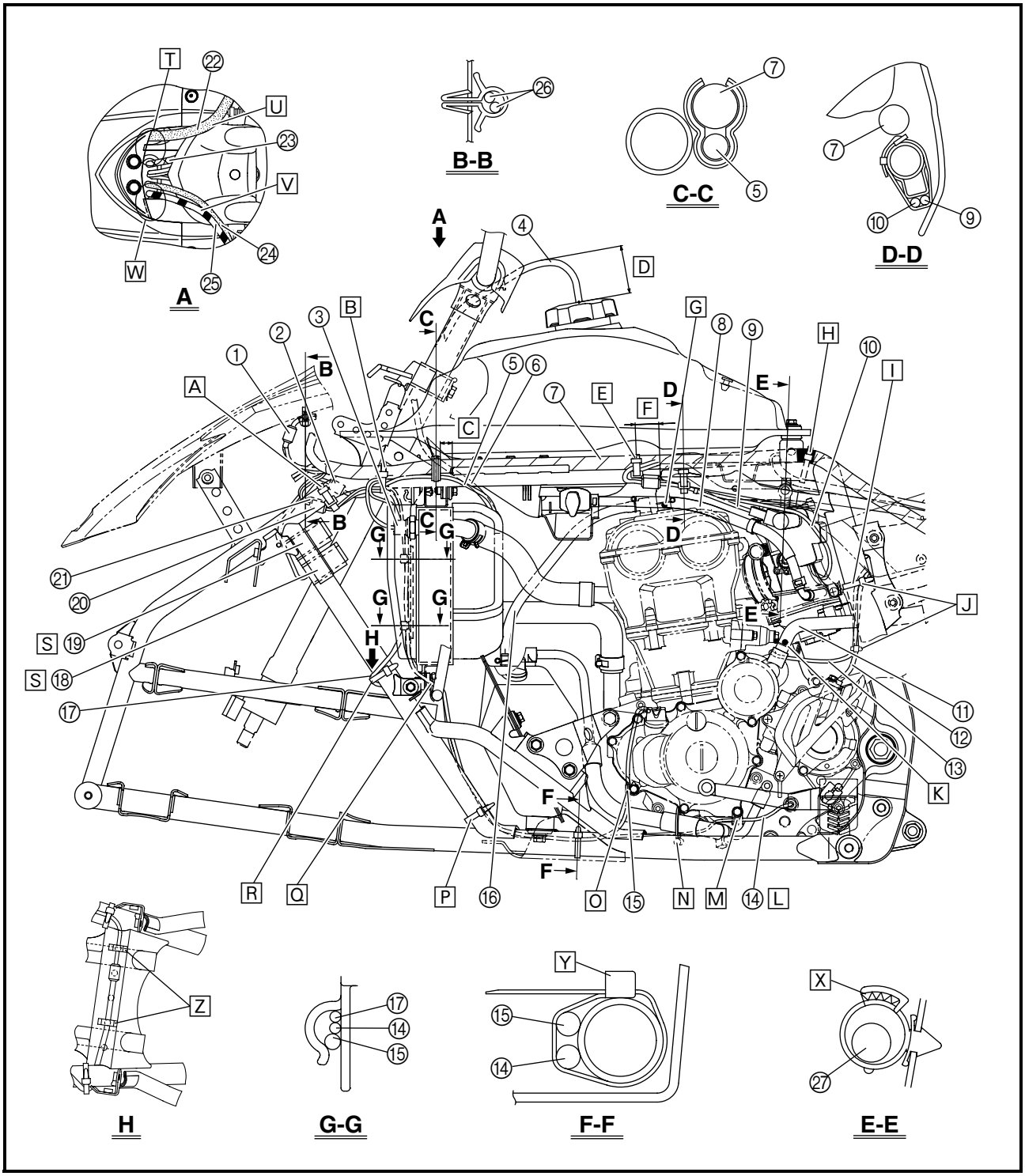


A

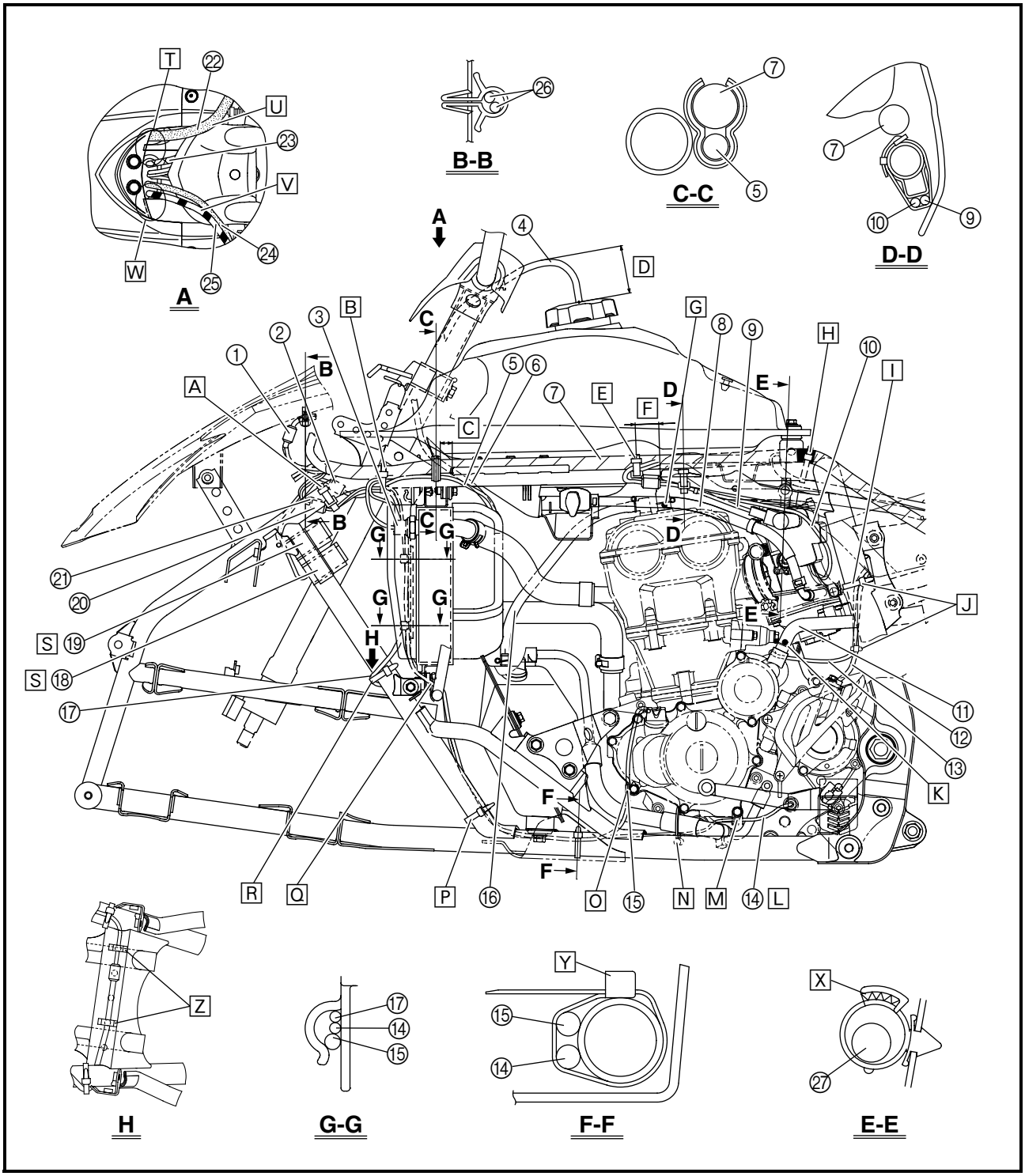
① Indicator coupler
② Radiator fan motor coupler
③ Thermo switch 2
④ Fuel tank breather hose
⑤ Radiator fan motor lead
⑥ Radiator fan breather hose
⑦ Wire harness
⑧ Fuel hose
⑨ Throttle position sensor lead
⑩ Carburetor switch lead
⑪ Crankcase breather hose
⑫ Negative battery lead
⑬ Starter motor lead
⑭ Neutral switch lead
⑮ A.C. magneto lead
⑯ Oil tank breather hose
⑰ Resistor lead
⑱ Headlight relay 1
⑲ Headlight relay 2
⑳ A.C. magneto coupler
㉑ Neutral switch coupler
㉒ Front brake hose
㉓ Throttle cable
㉔ Parking brake cable
㉕ Clutch cable
㉖ Indicator leads
㉗ Cylinder head breather hose



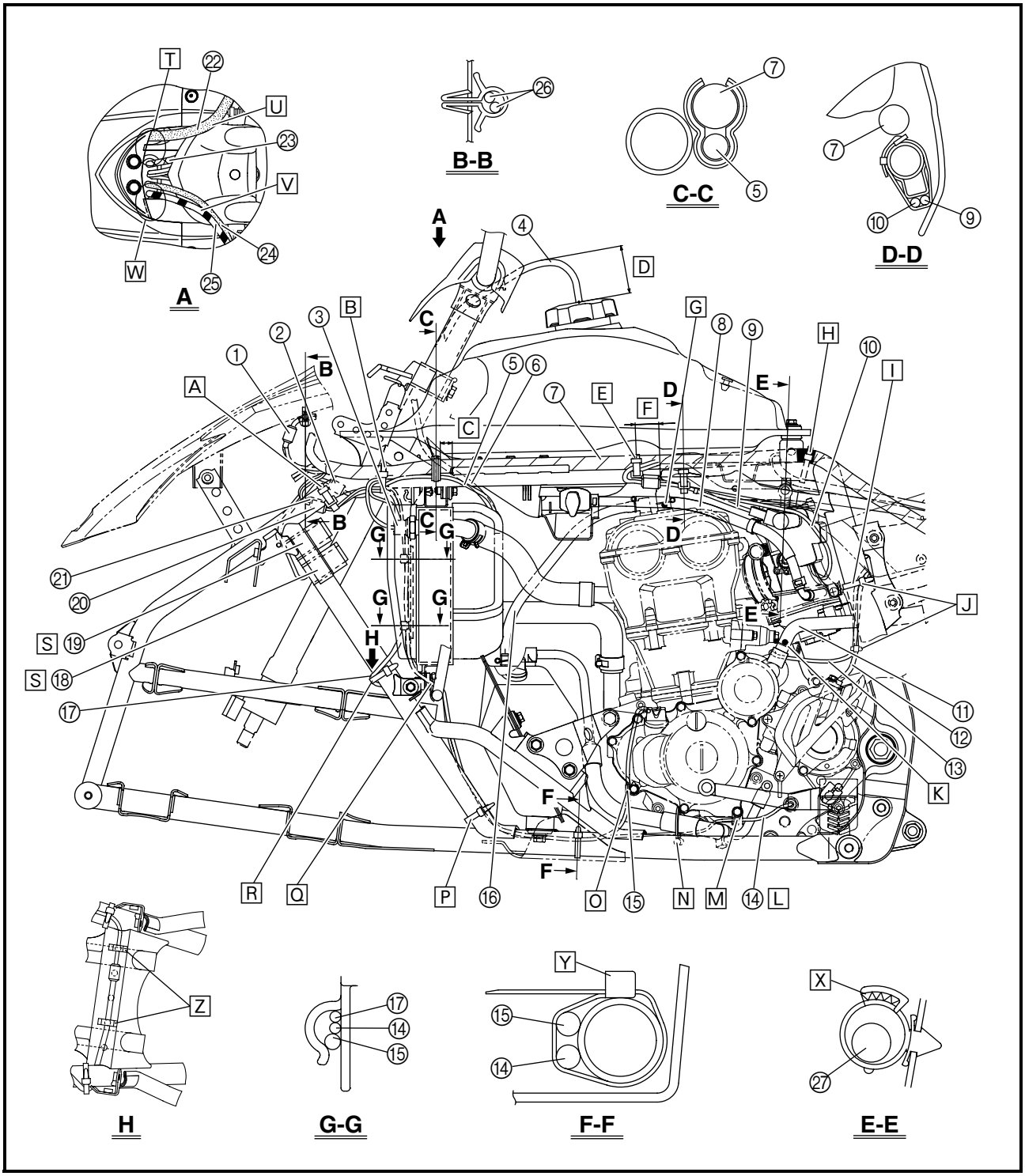
[A] Connect the neutral switch coupler and the A.C. magneto coupler, and then fasten the leads with the plastic band, making sure that they are routed under the frame and that they do not contact headlight relay 2.
[B] Fasten the wire harness, thermo switch 2 lead, A.C. magneto lead, resistor lead, neutral switch lead, and radiator fan motor lead with the plastic band and then face the end of the band inward between the frame tubes.
[C] 7 ~ 21 mm (0.28 ~ 0.83 in)
[D] 57 ~ 77 mm (2.24 ~ 3.03 in)
[E] Fasten the wire harness, throttle position sensor lead, and carburetor switch lead with the plastic band. Make sure that there is no slack in the throttle position sensor lead and carburetor switch lead along the frame as shown.
[F] More than 15 mm (0.59 in)
[G] Install the cylinder head breather hose with the paint mark facing to the left.



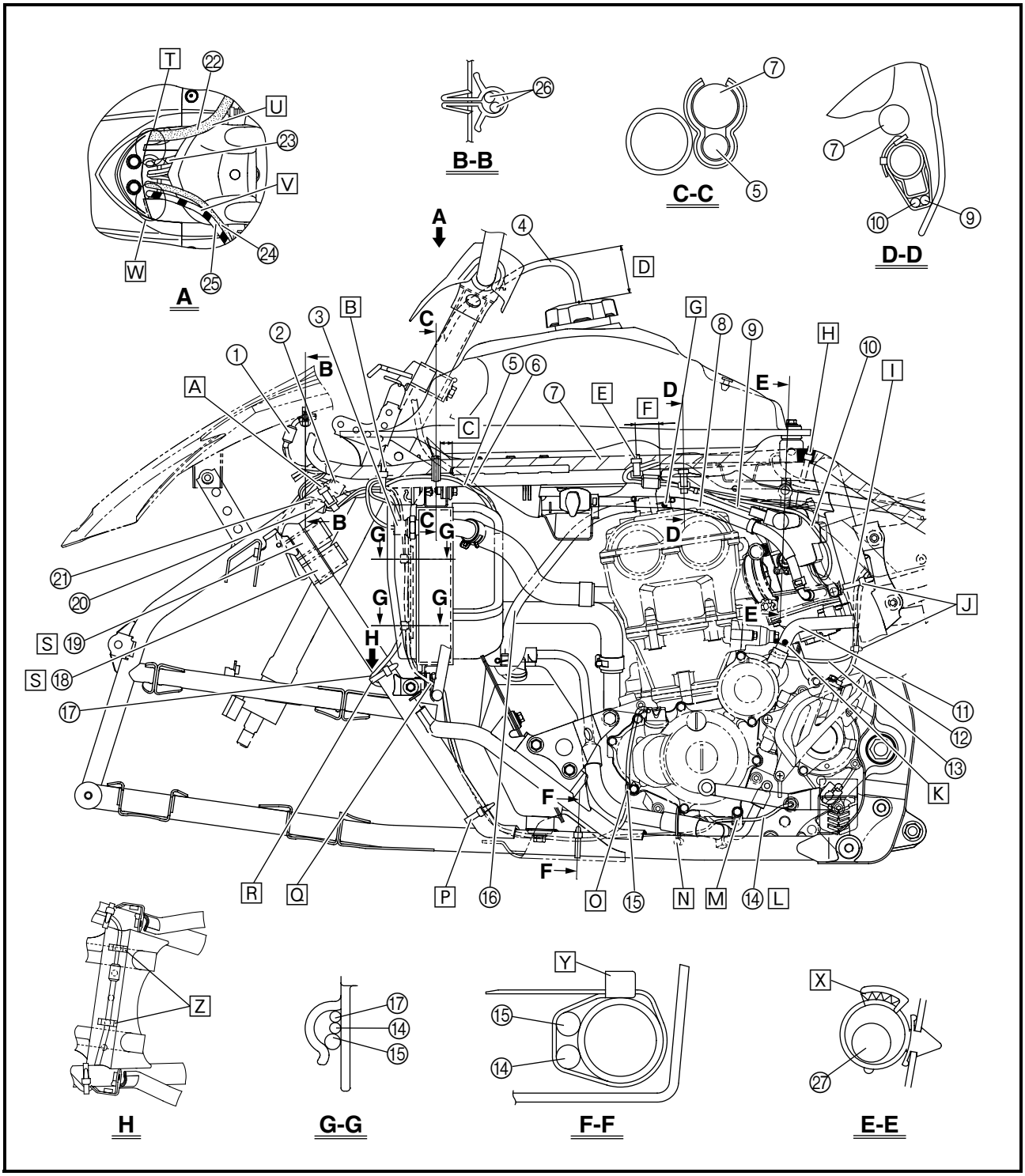
[H] Fasten the wire harness with the plastic band on the positioning tape and then face the end of the plastic band inward.
[I] Fasten the negative battery lead and starter motor lead with the plastic band and then face the end of the plastic band inward.
[J] Fasten the starter motor lead to the negative battery lead at the mark on the battery lead with the plastic band. Then, fasten the starter motor lead and negative battery lead to the frame with the plastic band and face the end of the band inward.
[K] Install the crankcase breather hose with the paint mark facing to the left.
[L] Route the neutral switch lead so that it does not contact the edges of the joint on the end of the oil pipe 2.



M Fasten the neutral switch lead with the lead holder.
N Fasten the neutral switch lead with the clamp.
O Fasten the A.C. magneto lead with the lead holder.
P Fasten the neutral switch lead and A.C. magneto lead with the plastic band. Face the end of the plastic band inward on top of the frame.
Q Pass the neutral switch lead and A.C. magneto lead through the guide on the fender stay.
R Wrap the resistor lead around the frame as shown in the illustration, and then fasten it with the plastic band. Face the end of the plastic band inward.
S Install headlight relay 1 and headlight relay 2 to the inside of the frame, making sure to insert the tab on each relay completely into its rubber holder and to install the holders all the way onto the tabs on the stay.



[T] When installing the fuel tank cover, do not pinch the front brake hose, throttle cable, front brake light switch lead, and throttle switch lead.
[U] Route the front brake hose in front of the handlebar cover.
[V] Route the clutch cable and parking brake cable in front of the handlebar cover.
[W] When installing the fuel tank cover, do not pinch the clutch cable, parking brake cable, clutch switch lead, and handlebar switch lead.
[X] Fasten the cylinder head breather hose with the holder, making sure that the catch of the holder is facing upward.
[Y] Fasten the A.C. magneto lead and neutral switch lead with the plastic band, making sure that the end of the band is on top of the frame, facing inward.
[Z] Fasten the resistor lead with the holders.



EBS00029

PERIODIC CHECKS AND ADJUSTMENTS

INTRODUCTION

This chapter includes all information necessary to perform recommended checks and adjustments. These preventive maintenance procedures, if followed, will ensure more reliable vehicle operation and a longer service life. The need for costly overhaul work will be greatly reduced. This information applies to vehicles already in service as well as to new vehicles that are being prepared for sale. All service technicians should be familiar with this entire chapter.

PERIODIC MAINTENANCE CHART FOR THE EMISSION CONTROL SYSTEM

NOTE:

- For ATVs not equipped with an odometer or an hour meter, follow the month maintenance intervals.
- For ATVs equipped with an odometer or an hour meter, follow the km (mi) or hours maintenance intervals. However, keep in mind that if the ATV isn't used for a long period of time, the month maintenance intervals should be followed.
- Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills.

NO.		ITEM	CHECK OR MAINTENANCE JOB	Whichever comes first ⇨		INITIAL			EVERY	
					month	1	3	6	6	12
					km (mi)	320 (200)	1300 (800)	2500 (1600)	2500 (1600)	5000 (3200)
					hours	20	80	160	160	320
1	*	**Fuel line**	• Check fuel hoses for cracks or other damage, and replace if necessary.					√	√	√
2		**Spark plug**	• Check condition and clean, regap, or replace if necessary.			√	√	√	√	√
3	*	**Valves**	• Check valve clearance and adjust if necessary.			√		√	√	√
4	*	**Carburetor**	• Check starter (choke) operation and correct if necessary. • Check engine idling speed and adjust if necessary.				√	√	√	√
5	*	**Crankcase breather system**	• Check breather hose for cracks or other damage, and replace if necessary.					√	√	√
6	*	**Exhaust system**	• Check for leakage and replace gasket(s) if necessary. • Check for looseness and tighten all screw clamps and joints if necessary.					√	√	√
7		**Spark arrester**	• Clean.					√	√	√

CHK ADJ

GENERAL MAINTENANCE AND LUBRICATION CHART

NO.		ITEM	CHECK OR MAINTENANCE JOB	Whichever comes first ⇨		INITIAL			EVERY	
					month	1	3	6	6	12
					km (mi)	320 (200)	1300 (800)	2500 (1600)	2500 (1600)	5000 (3200)
					hours	20	80	160	160	320
1		**Air filter element**	• Clean and replace if necessary.			**Every 20–40 hours (more often in wet or dusty areas)**				
2	*	**Clutch**	• Check operation and adjust if necessary.			√		√	√	√
3	*	**Front brake**	• Check operation and correct if necessary. • Check fluid level and ATV for fluid leakage, and correct if necessary.			√	√	√	√	√
			• Replace brake pads.			**Whenever worn to the limit**				
4	*	**Rear brake**	• Check operation and correct if necessary. • Check brake lever free play and adjust if necessary. • Check fluid level and ATV for fluid leakage, and correct if necessary.			√	√	√	√	√
			• Replace brake pads.			**Whenever worn to the limit**				
5	*	**Brake hoses**	• Check for cracks or other damage, and replace if necessary.				√	√	√	√
			• Replace.			**Every 4 years**				
6	*	**Parking brake**	• Check operation and adjust if necessary.			√	√	√	√	√
7	*	**Wheels**	• Check runout and for damage, and replace if necessary.			√		√	√	√
8	*	**Tires**	• Check tread depth and for damage, and replace if necessary. • Check air pressure and balance, and correct if necessary.			√		√	√	√
9	*	**Wheel bearings**	• Check for looseness or damage, and replace if necessary.			√		√	√	√
10	*	**Swingarm pivots**	• Check operation and for excessive play, and replace bearings if necessary. • Lubricate with molybdenum disulfide grease.					√	√	√
11	*	**Upper and lower arm pivots**	• Lubricate with lithium-soap-based grease.					√	√	√
12		**Drive chain**	• Check chain slack and adjust if necessary. • Check rear wheel alignment and correct if necessary. • Clean and lubricate.			√	√	√	√	√
13	*	**Drive chain rollers**	• Check for wear and replace if necessary.					√	√	√
14	*	**Chassis fasteners**	• Make sure that all nuts, bolts, and screws are properly tightened.			√	√	√	√	√
15	*	**Shock absorber assemblies**	• Check operation and correct if necessary. • Check for oil leakage and replace if necessary.					√	√	√
16	*	**Rear suspension relay arm and connecting arm pivoting points**	• Check operation and correct if necessary. • Lubricate with lithium-soap-based grease.				√	√	√	√
17	*	**Steering shaft**	• Lubricate with lithium-soap-based grease.					√	√	√
18	*	**Steering system**	• Check operation and repair or replace if damaged. • Check toe-in and adjust if necessary.			√	√	√	√	√
19	*	**Engine mount**	• Check for cracks or other damage, and replace if necessary.					√	√	√
20		**Engine oil**	• Change. • Check ATV for oil leakage, and correct if necessary.			√		√	√	√
21		**Engine oil filter element**	• Clean or replace if necessary.			√		√		√

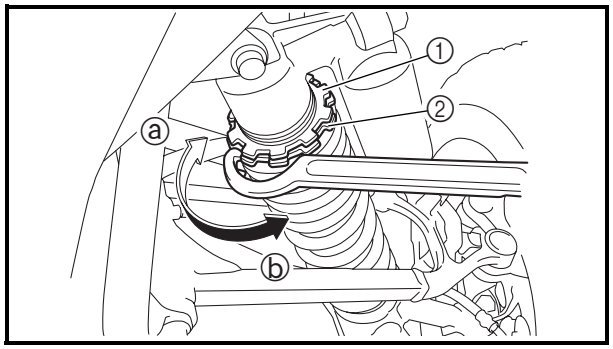
GENERAL MAINTENANCE AND LUBRICATION CHART

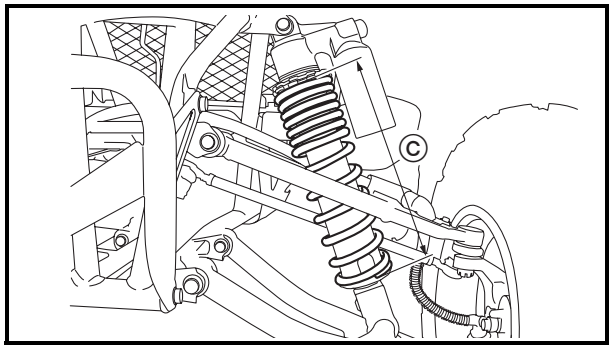
CHK / ADJ

NO.		ITEM	CHECK OR MAINTENANCE JOB	Whichever comes first ⇨		INITIAL			EVERY	
					month	1	3	6	6	12
					km (mi)	320 (200)	1300 (800)	2500 (1600)	2500 (1600)	5000 (3200)
					hours	20	80	160	160	320
22		Cooling system	• Check coolant level and ATV for coolant leakage, and correct if necessary.			√	√	√	√	√
			• Replace coolant.			Every 2 years				
23	*	Moving parts and cables	• Lubricate.				√	√	√	√
24	*	Throttle lever housing and cable	• Check operation and correct if necessary. • Check throttle cable free play and adjust if necessary. • Lubricate throttle lever housing and cable.			√	√	√	√	√
25	*	Front and rear brake switches	• Check operation and correct if necessary.			√	√	√	√	√
26	*	Lights and switches	• Check operation and correct if necessary. • Adjust headlight beams.			√	√	√	√	√

NOTE:

- The air filter needs more frequent service if you are riding in unusually wet or dusty areas.
- Hydraulic brake service
  - Regularly check and, if necessary, correct the brake fluid level.
  - Every two years replace the internal components of the brake master cylinders and calipers, and change the brake fluid.
  - Replace the brake hoses every four years and if cracked or damaged.





CHASSIS

EBS00111

ADJUSTING THE FRONT SHOCK ABSORBERS (for models equipped with two compression damping adjusters)

⚠ WARNING

Always adjust the spring preload, rebound damping force and compression damping force of both front shock absorbers to the same setting. Uneven adjustment can result in poor handling and loss of stability.

1. Adjust:
   - spring preload

▼▼▼▼▼▼▼▼▼▼▼▼▼▼▼▼▼▼▼▼▼▼▼▼▼▼▼▼▼▼▼▼▼▼

a. Elevate the front wheels by placing a suitable stand under the frame.
b. Loosen the locknut ①.
c. Turn the adjusting ring ② in direction ⓐ or ⓑ.

Direction ⓐ	**Spring preload is increased (suspension is harder).**
Direction ⓑ	**Spring preload is decreased (suspension is softer).**

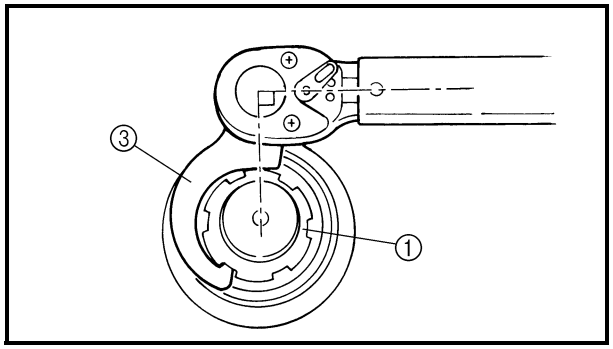
Adjusting length ⓒ
Standard: 255 mm (10.0 in)
Minimum: 246.5 mm (9.7 in)
Maximum: 261.5 mm (10.3 in)

NOTE:

- Be sure to remove all dirt and mud from around the locknut and adjusting ring before adjustment.
- The length of the spring (installed) changes 1.5 mm (0.06 in) per turn of the adjuster.

CAUTION:

Never attempt to turn the adjusting ring beyond the maximum or minimum setting.



d. Tighten the locknut ① with a steering nut wrench ③.

NOTE:
Set the torque wrench at a right angle to the steering nut wrench.

	Steering nut wrench **P/N. YU-33975, 90890-01443**

	Locknut **30 Nm (3.0 m · kg, 22 ft · lb)**

NOTE:
Always tighten the locknut against the adjusting ring, then torque it to specification.

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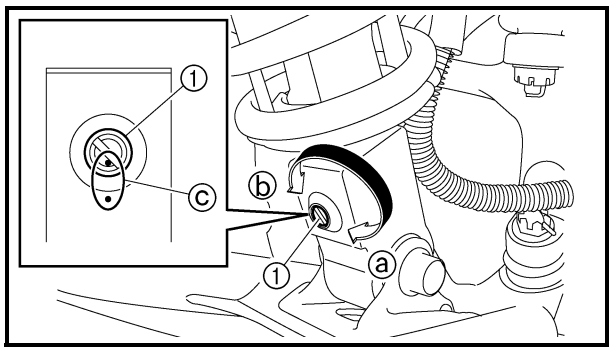

2. Adjust:
• rebound damping force

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a. Turn the adjusting screw ① in direction ⓐ or ⓑ.

Direction ⓐ	**Rebound damping force is increased.**
Direction ⓑ	**Rebound damping force is decreased.**

From the fully turned-in position
Standard: 10 clicks out
Minimum: 20 clicks out
Maximum: 1 click out

NOTE:
Make sure that the position indicator marks ⓒ are aligned when the shock absorber is set to the standard setting.

CAUTION:
Do not force the adjuster past the minimum or maximum extent of adjustment. The adjuster may be damaged.

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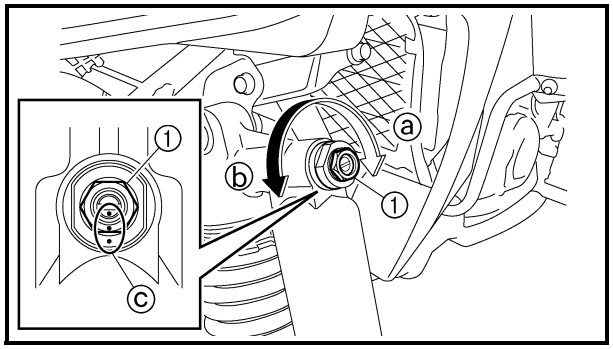

3. Adjust:
   • compression damping force (fast compression damping)

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a. Turn the adjusting bolt ① in direction ⓐ or ⓑ.

Direction ⓐ	**Compression damping force is increased.**
Direction ⓑ	**Compression damping force is decreased.**

Standard: Adjusting bolt 1 turn out from the fully turned in position
Minimum (soft): Adjusting bolt 3 turns out from the fully turned in position
Maximum (hard): Adjusting bolt fully turned in

NOTE:

Make sure that the position indicator marks ⓒ are aligned when the shock absorber is set to the standard setting.

CAUTION:

Do not force the adjuster past the minimum or maximum extent of adjustment. The adjuster may be damaged.

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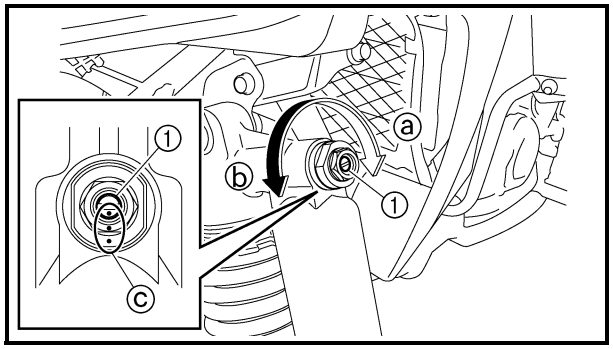

4. Adjust:
   • compression damping force (slow compression damping)

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a. Turn the adjusting screw ① in direction ⓐ or ⓑ.

Direction ⓐ	**Compression damping force is increased.**
Direction ⓑ	**Compression damping force is decreased.**

From the fully turned-in position
Standard: 10 clicks out
Minimum: 20 clicks out
Maximum: 1 click out

NOTE:
Make sure that the position indicator marks ⓒ are aligned when the shock absorber is set to the standard setting.

CAUTION:
Do not force the adjuster past the minimum or maximum extent of adjustment. The adjuster may be damaged.

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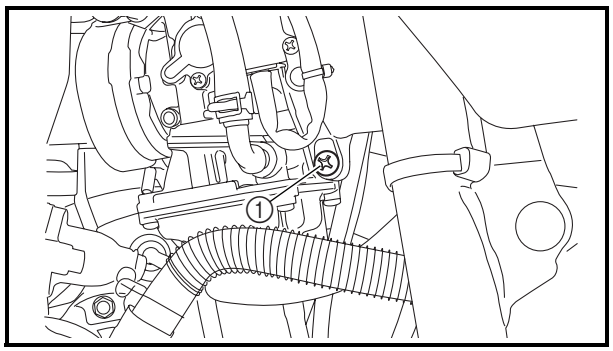
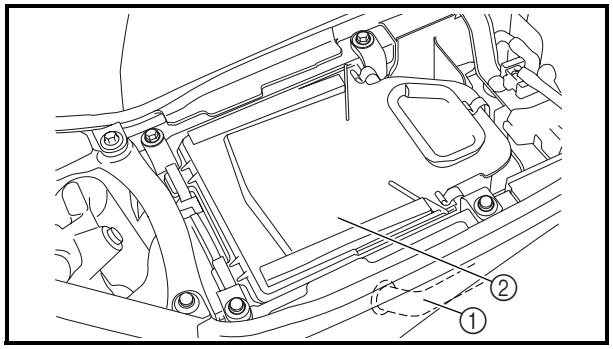
EBS00111

ADJUSTING THE REAR SHOCK ABSORBER (for models equipped with two compression damping adjusters)

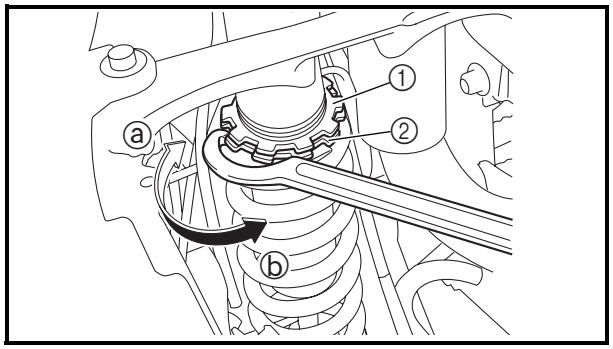
1. Remove:
   • seat
   Refer to “SEAT, FENDERS AND FUEL TANK” in chapter 3.
   (Manual No.: 5TG-28197-10)

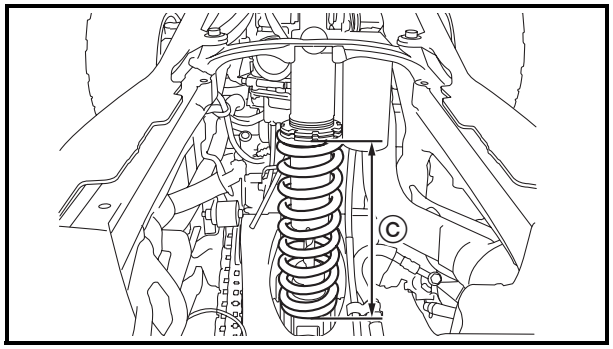


2. Loosen the clamp screw ①, and then disconnect the air intake duct.



3. Disconnect the air filter case breather hose ①, and then remove the air filter case ② with the air intake duct.





4. Adjust:
   - spring preload

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a. Elevate the rear wheels by placing a suitable stand under the frame.
b. Loosen the locknut ①.
c. Turn the adjusting ring ② in direction ⓐ or ⓑ.

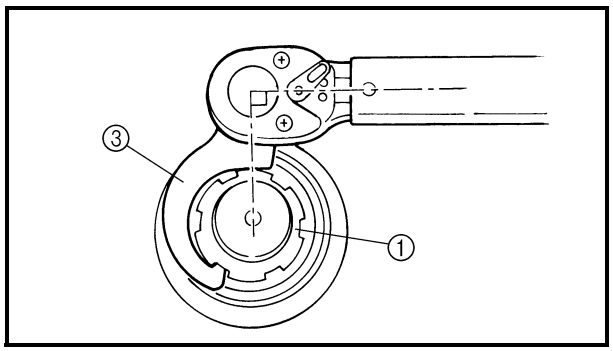
Direction ⓐ	**Spring preload is increased (suspension is harder).**
Direction ⓑ	**Spring preload is decreased (suspension is softer).**

Adjusting length ⓒ
Standard: 257 mm (10.1 in)
Minimum: 250 mm (9.8 in)
Maximum: 264 mm (10.4 in)

NOTE:
- Be sure to remove all dirt and mud from around the locknut and adjusting ring before adjustment.
- The length of the spring (installed) changes 1.5 mm (0.06 in) per turn of the adjuster.

CAUTION:

Never attempt to turn the adjusting ring beyond the maximum or minimum setting.

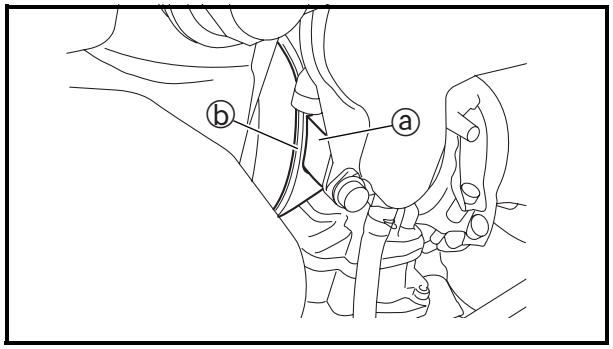


d. Tighten the locknut ① with a steering nut wrench ③.

NOTE:
Set the torque wrench at a right angle to the steering nut wrench.

	Steering nut wrench P/N. YU-33975, 90890-01443
	Locknut 44 Nm (4.4 m · kg, 32 ft · lb)

NOTE:
Always tighten the locknut against the adjusting ring, then torque it to specification.



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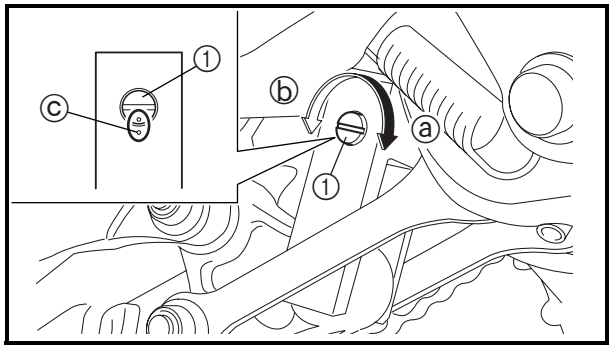
5. Install:
   • air filter case with air intake duct

NOTE:
Align the projection ⓐ on the carburetor with the slot ⓑ in the air intake duct.



6. Adjust:
   • rebound damping force

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a. Turn the adjusting screw ① in direction ⓐ or ⓑ.

Direction ⓐ	**Rebound damping force is increased.**
Direction ⓑ	**Rebound damping force is decreased.**

Standard: Adjusting screw 1 1/2 turns out from the fully turned in position
Minimum (soft): Adjusting screw 3 turns out from the fully turned in position
Maximum (hard): Adjusting screw fully turned in

NOTE:
Make sure that the position indicator marks ⓒ are aligned when the shock absorber is set to the standard setting.

CAUTION:
Do not force the adjuster past the minimum or maximum extent of adjustment. The adjuster may be damaged.

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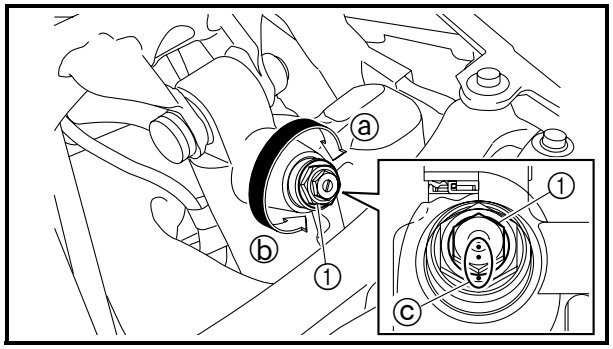

7. Adjust:
   • compression damping force (fast compression damping)

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a. Turn the adjusting bolt ① in direction ⓐ or ⓑ.

Direction ⓐ	**Compression damping force is increased.**
Direction ⓑ	**Compression damping force is decreased.**

Standard: Adjusting bolt 2 turns out from the fully turned in position
Minimum (soft): Adjusting bolt 3 turns out from the fully turned in position
Maximum (hard): Adjusting bolt fully turned in

NOTE:

Make sure that the position indicator marks ⓒ are aligned when the shock absorber is set to the standard setting.

CAUTION:

Do not force the adjuster past the minimum or maximum extent of adjustment. The adjuster may be damaged.

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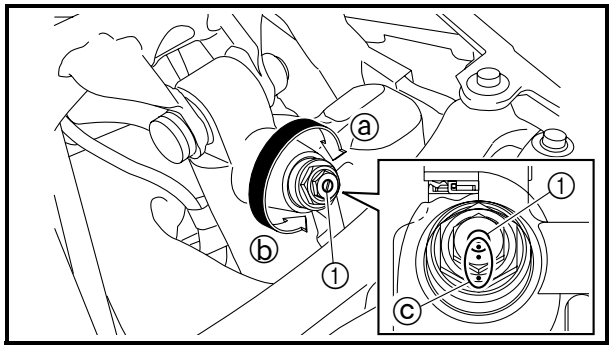

8. Adjust:
   - compression damping force (slow compression damping)

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a. Turn the adjusting screw ① in direction ⓐ or ⓑ.

Direction ⓐ	**Compression damping force is increased.**
Direction ⓑ	**Compression damping force is decreased.**

From the fully turned-in position
Standard: 11 clicks out
Minimum: 20 clicks out
Maximum: 1 click out

NOTE:

Make sure that the position indicator marks ⓒ are aligned when the shock absorber is set to the standard setting.

CAUTION:

Do not force the adjuster past the minimum or maximum extent of adjustment. The adjuster may be damaged.

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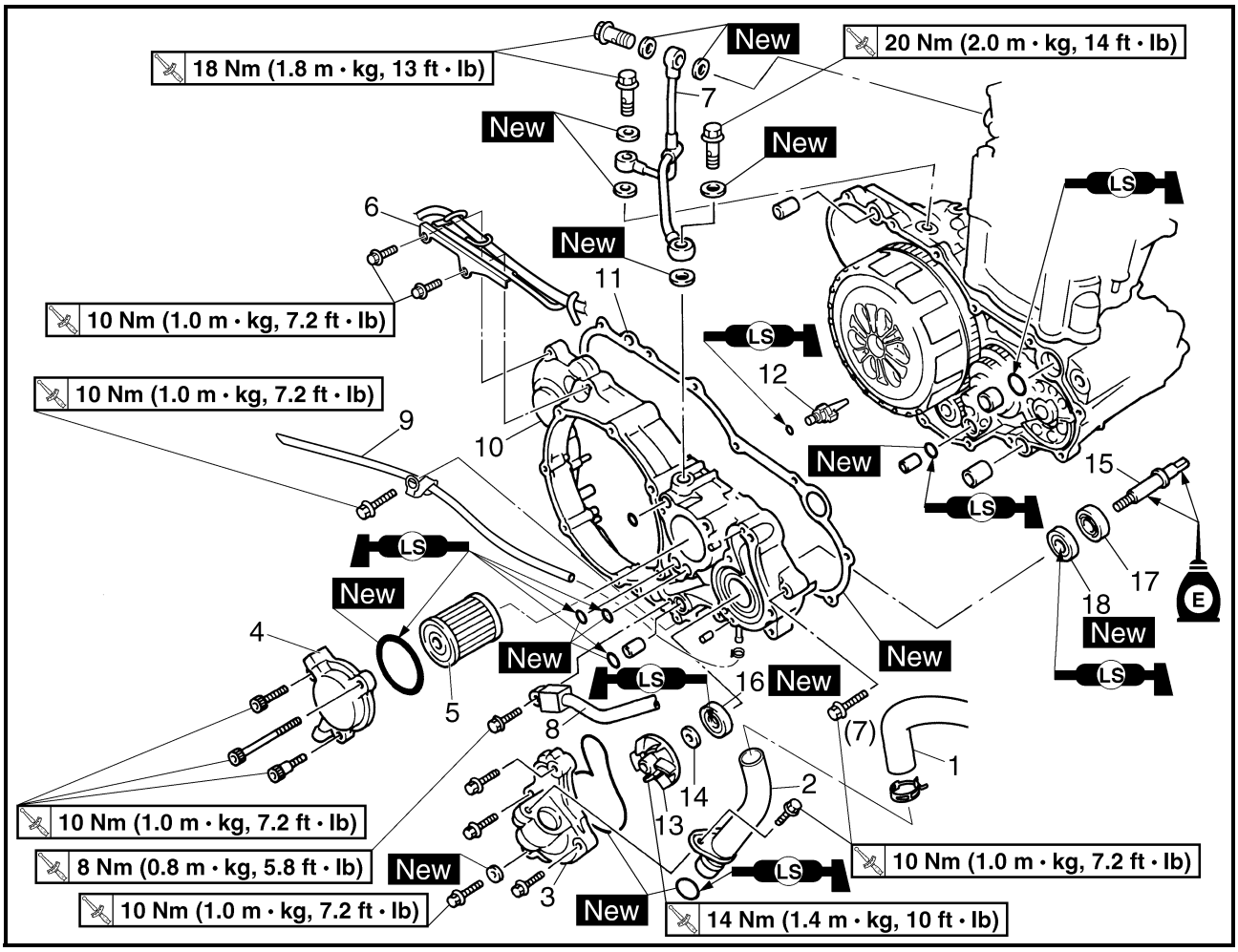
9. Install:
   - seat

   Refer to “SEAT, FENDERS AND FUEL TANK” in chapter 3.
   (Manual No.: 5TG-28197-10)

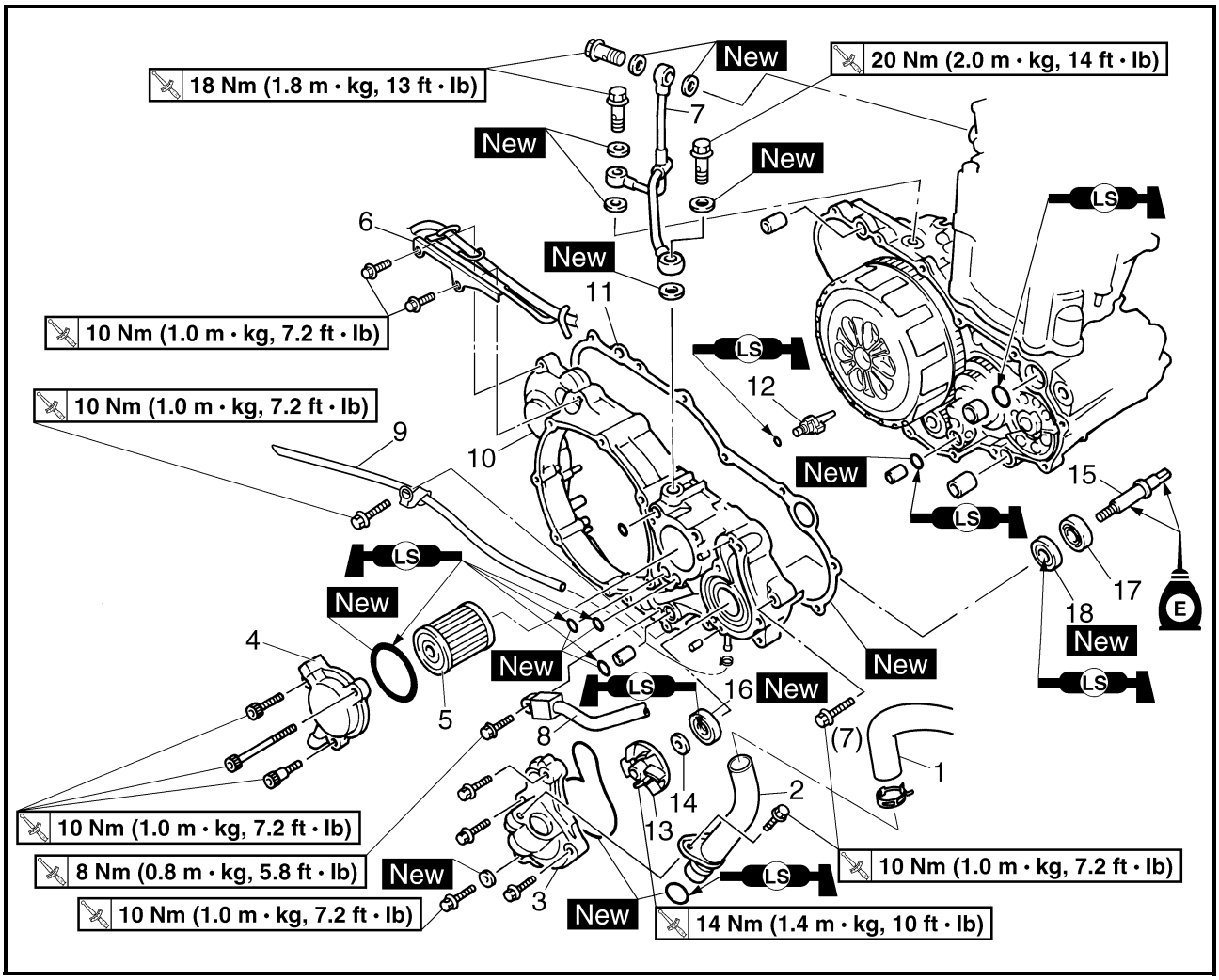
EBS00134

COOLING SYSTEM

WATER PUMP



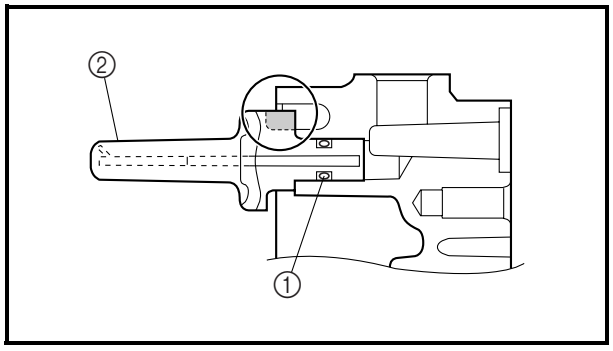
Order	Job/Part	Q'ty	Remarks
	Removing the water pump		Remove the parts in the order listed.
	Engine oil		Drain.
	Coolant		Drain.
	Exhaust pipe		Refer to "ENGINE REMOVAL". (Manual No.: 5TG-28197-11)
	Rear brake light switch/footrest (right)		Refer to "FRONT AND REAR BRAKES". (Manual No.: 5TG-28197-11)
	Clutch cover		Refer to "CLUTCH" in chapter 4. (Manual No.: 5TG-28197-10)
1	Radiator outlet hose	1	
2	Water pump inlet pipe	1	
3	Water pump housing	1	
4	Oil filter element cover	1	
5	Oil filter element	1	
6	Parking brake holder	1	



Order	Job/Part	Q'ty	Remarks
7	Oil delivery pipe 1	1	
8	Oil pipe 1	1	
9	Water pump breather hose	1	
10	Right crankcase cover	1	
11	Gasket	1	
12	Oil nozzle	1	Refer to "INSTALLING THE OIL NOZZLE".
13	Impeller	1	
14	Washer	1	
15	Impeller shaft	1	
16	Oil seal	1	
17	Bearing	1	
18	Oil seal	1	
			For installation, reverse the removal procedure.

CHECKING THE OIL NOZZLE

1. Check:
   - oil nozzle
     Damage/wear → Replace the oil nozzle.
   - oil passage
     Obstruction → Blow out with compressed air.



INSTALLING THE OIL NOZZLE

1. Install:
   - O-ring ①
   - oil nozzle ②

NOTE:

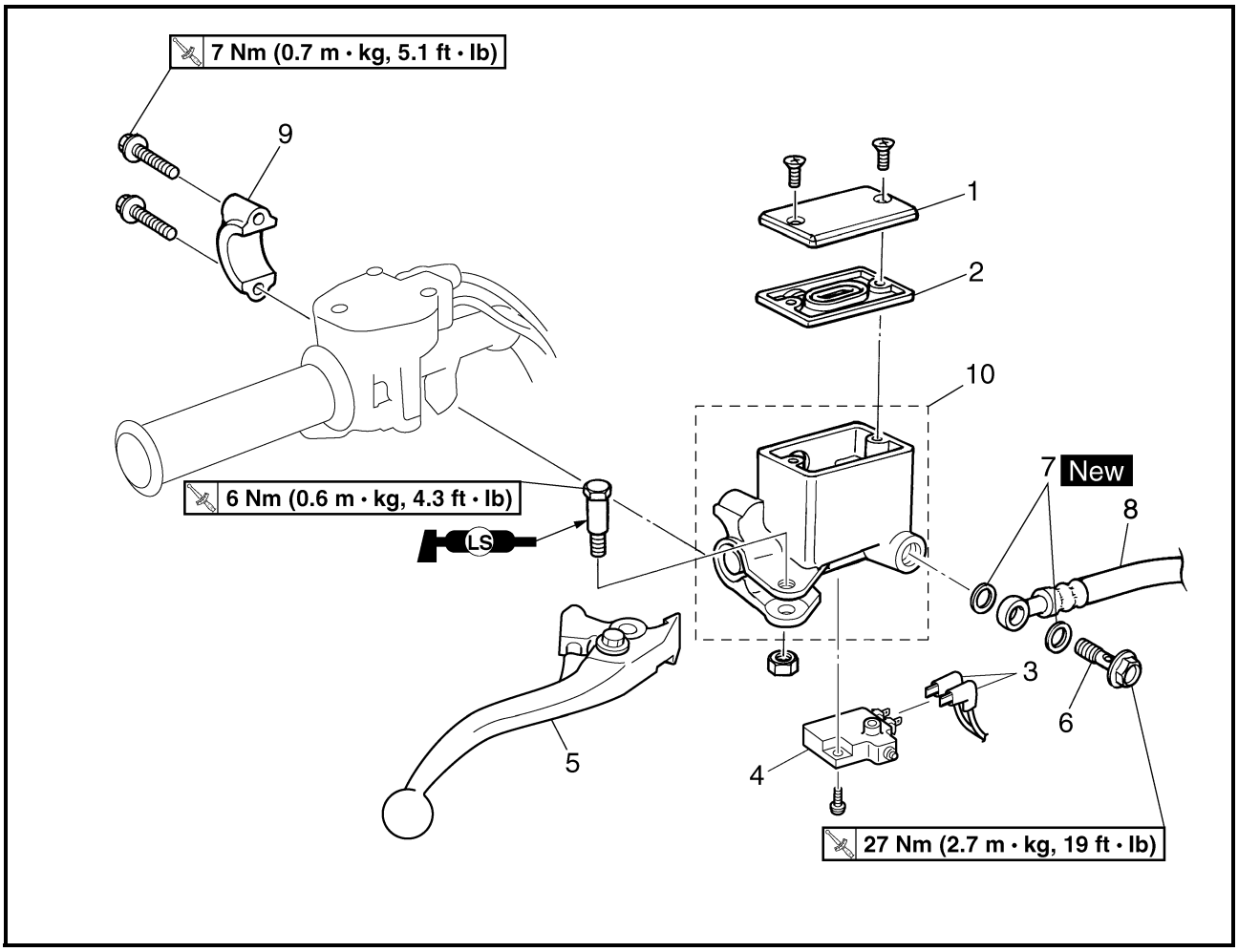
Be sure to fit the projection on the oil nozzle into the groove in the right crankcase cover.

EBS00407

CHASSIS

FRONT AND REAR BRAKES

FRONT BRAKE MASTER CYLINDER



Order	Job/Part	Q'ty	Remarks
	Removing the front brake master cylinder		Remove the parts in the order listed.
	Brake fluid		Drain.
1	Brake fluid reservoir cap	1	
2	Brake fluid reservoir diaphragm	1	
3	Front brake light switch connector	2	Disconnect.
4	Front brake light switch	1	
5	Brake lever	1	
6	Union bolt	1	Refer to "INSTALLING THE FRONT BRAKE MASTER CYLINDER" in chapter 7. (Manual No.: 5TG-28197-10)
7	Copper washer	2	
8	Brake hose	1	Disconnect.
9	Brake master cylinder bracket	1	
10	Brake master cylinder	1	
			For installation, reverse the removal procedure.

YFZ450W/YFZ450SEW 2007 WIRING DIAGRAM

① A.C. magneto
② Rectifier/regulator
③ Main switch
④ Battery
⑤ Fuse
⑥ Starter relay
⑦ Starter motor
⑧ Diode 1
⑨ Starting circuit cut-off relay
⑩ Clutch switch
⑪ C.D.I. unit
⑫ Ignition coil
⑬ Spark plug
⑭ Throttle position sensor
⑮ Throttle switch
⑯ Carburetor switch
⑰ Circuit breaker (fan motor)
⑱ Thermo switch 1
⑲ Fan motor
⑳ Coolant temperature warning light
㉑ Neutral indicator light
㉒ Neutral switch
㉓ Diode 2
㉔ Thermo switch 2
㉕ Handlebar switch
㉖ Light switch
㉗ Engine stop switch
㉘ Start switch
㉙ Headlight
㉚ Headlight relay 1
㉛ Headlight relay 2
㉜ Resistor
㉝ Tail/brake light
㉞ Rear brake light switch
㉟ Front brake light switch

COLOR CODE

B ..... Black
Br ..... Brown
G ..... Green
L ..... Blue
O ..... Orange
R ..... Red
Sb ..... Sky blue
W ..... White
Y ..... Yellow
B/L ..... Black/Blue
B/Y ..... Black/Yellow
Br/L ..... Brown/Blue
G/R ..... Green/Red
L/B ..... Blue/Black
R/B ..... Red/Black
R/W ..... Red/White
W/B ..... White/Black
W/L ..... White/Blue
Y/B ..... Yellow/Black
Y/L ..... Yellow/Blue
Y/R ..... Yellow/Red
Y/W ..... Yellow/White

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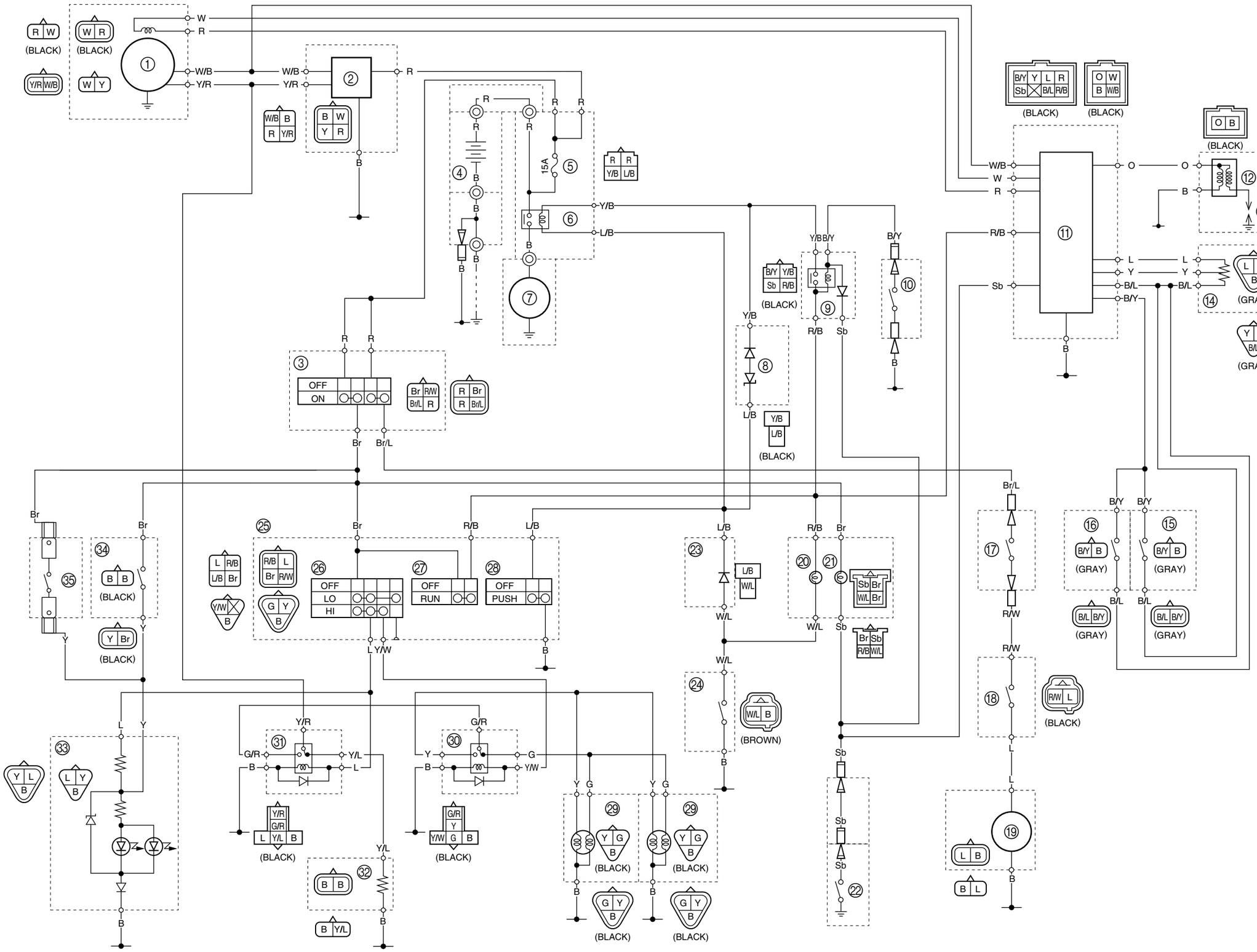
YFZ450W/YFZ450SEW 2007 WIRING DIAGRAM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